

Exponents and Roots and Triangles! Oh My!

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1 Exponents

$$n^2 = n \times n$$

$$0^2 = \times =$$

$$1^2 = \times =$$

$$2^2 = \times =$$

$$3^2 = \times =$$

$$4^2 = \times =$$

$$5^2 = \times =$$

$$6^2 = \times =$$

$$7^2 = \times =$$

$$8^2 = \times =$$

$$9^2 = \times =$$

$$10^2 = \times =$$

$$0^4 = \times \times \times =$$

$$1^4 = \times \times \times =$$

$$10^4 = \times \times \times =$$

$$10^5 =$$

$$10^{10} =$$

$$n^3 = n \times n \times n$$

$$0^3 = \times \times =$$

$$1^3 = \times \times =$$

$$2^3 = \times \times =$$

$$3^3 = \times \times =$$

$$4^3 = \times \times =$$

$$10^3 = \times \times =$$

2 Roots

$$\sqrt{n^2} = \sqrt{n \times n} = n$$

$$\sqrt{n^3} = \sqrt{n \times n \times n} = n\sqrt{n}$$

$$\sqrt{0} = \sqrt{\quad \times \quad} =$$

$$\sqrt{1} = \sqrt{\quad \times \quad} =$$

$$\sqrt{2} = \sqrt{\quad \times \quad} =$$

$$\sqrt{4} = \sqrt{\quad \times \quad} =$$

$$\sqrt{8} = \sqrt{\quad \times \quad} =$$

$$\sqrt{10} = \sqrt{\quad \times \quad} =$$

$$\sqrt{12} = \sqrt{\quad \times \quad} =$$

$$\sqrt{16} = \sqrt{\quad \times \quad} =$$

$$\sqrt{18} = \sqrt{\quad \times \quad} =$$

$$\sqrt{36} = \sqrt{\quad \times \quad} =$$

$$\sqrt{49} = \sqrt{\quad \times \quad} =$$

$$\sqrt{100} = \sqrt{\quad \times \quad} =$$

$$\sqrt{-1} = \sqrt{\quad \times \quad} =$$

3 Triangles: $a^2 + b^2 = c^2$

$a = X$	$b = Y$	$a = 1$	$b = 1$
$a^2 =$	$a \times a$	$a^2 =$	$\times =$
$b^2 =$	$b \times b$	$b^2 =$	$\times =$
$c^2 =$	$a^2 + b^2$	$c^2 =$	$+ =$
$c =$	$\sqrt{a^2 + b^2}$	$c =$	$\sqrt{\quad} =$
$a = 2$	$b = 3$	$a = 3$	$b = 4$
$a^2 =$	$\times =$	$a^2 =$	$\times =$
$b^2 =$	$\times =$	$b^2 =$	$\times =$
$c^2 =$	$+ =$	$c^2 =$	$+ =$
$c =$	$\sqrt{\quad} =$	$c =$	$\sqrt{\quad} =$
$a = \sqrt{2}$	$b = \sqrt{2}$	$a = 2$	$b = \sqrt{6}$
$a^2 =$	$\times =$	$a^2 =$	$\times =$
$b^2 =$	$\times =$	$b^2 =$	$\times =$
$c^2 =$	$+ =$	$c^2 =$	$+ =$
$c =$	$\sqrt{\quad} =$	$c =$	$\sqrt{\quad} =$
$a = 3$	$b = 3$	$a = 5$	$b = 12$
$a^2 =$	$\times =$	$a^2 =$	$\times =$
$b^2 =$	$\times =$	$b^2 =$	$\times =$
$c^2 =$	$+ =$	$c^2 =$	$+ =$
$c =$	$\sqrt{\quad} =$	$c =$	$\sqrt{\quad} =$
$a = 4$	$b = 5$	$a = \sqrt{5}$	$b = \sqrt{5}$
$a^2 =$	$\times =$	$a^2 =$	$\times =$
$b^2 =$	$\times =$	$b^2 =$	$\times =$
$c^2 =$	$+ =$	$c^2 =$	$+ =$
$c =$	$\sqrt{\quad} =$	$c =$	$\sqrt{\quad} =$